

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**  
MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0101303

Owner: Alexander – Richardson Investments, Inc.  
Address: 105 Lake Village Drive, St. Charles, MO 63301

Continuing Authority: Same as above  
Address: Same as above

Facility Name: Yacht Club of St. Louis  
Facility Address: 105 Lake Village Drive, St. Charles, MO 63301

Legal Description: NW ¼, NE ¼, SW ¼, Sec. 30, T48N, R5E, St. Charles County  
Latitude/Longitude: +3853195/-09030120

Receiving Stream: Dardenne Slough (U)  
First Classified Stream and ID: Mississippi River (P) (0001)  
USGS Basin & Sub-watershed No.: (07110009 - 030004)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

**FACILITY DESCRIPTION**

Outfall #001 – Swimming Pool Clubhouse - SIC # 4952  
Septic tank with sand filter/ sludge disposal is by contract hauler.  
Design population equivalent is 18.  
Design flow is 1,600 gallons per day.  
Design sludge production is 0.13 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

April 14, 2006

Effective Date

*Doyle Childers*

Doyle Childers, Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

April 13, 2011

Expiration Date

Mike Struckhoff, Director, St. Louis Regional Office

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>					PAGE NUMBER 2 of 3	
					PERMIT NUMBER MO-0101303	
<p>The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:</p>						
(OUTFALL NUMBER AND EFFLUENT PARAMETERS)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	Twice/annually****	24 hour est.
Biochemical Oxygen Demand <sub>5</sub>	mg/L		45	30	Twice/annually****	Composite**
Total Suspended Solids	mg/L		45	30	Twice/annually****	Composite**
pH – Units	SU	***		***	Twice/annually****	Grab
Ammonia as N	mg/L	*		*	Twice/annually****	Grab
Temperature	°C	*		*	Twice/annually****	Grab
<p>MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u>; THE FIRST REPORT IS DUE <u>July 28, 2006</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.</p>						
<b>B. STANDARD CONDITIONS</b>						
<p>IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I &amp; III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u>, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.</p>						

MO 780-0010 (8/91)

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)**

- \* Monitoring requirement only.
- \*\* A composite sample made up from a minimum of four grab samples collected within a 24-hour period with a minimum of two hours between each grab sample.
- \*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0 to 9.0 pH units.
- \*\*\*\* Monitoring samples shall be taken in the months of June and September. An annual report of the operation shall be required and shall include the following information as a minimum:
  - (a) Record of maintenance and repairs performed during the year for this facility. The report shall include such things as: repair and replacement of motors, blowers or other mechanical equipment, removal of excess solids from the treatment plant, etc.
  - (b) Record of the number of times the facility was checked by the operator during the year to determine the operating condition of the plant.
  - (c) Description of the effluent each time the plant is checked; such as, color and odor, if any.
  - (d) Estimates of effluent volume; may be based upon water consumption records, when available.
  - (e) Description of any unusual operating conditions encountered during the year.
  - (f) The annual report shall be due by November 30 each year.

**C. SPECIAL CONDITIONS**

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - a. Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - b. Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - c. Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.

C. SPECIAL CONDITIONS (continued)

3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances.  
The permittee shall notify the Director as soon as it knows or has reason to believe:
  - a. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (1) One hundred micrograms per liter (100 µg/L);
    - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
    - (4) The level established in Part A of the permit by the Director.
  - b. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
  - c. That the effluent limit established in part A of the permit will be exceeded.
5. Report as no-discharge when a discharge does not occur during the report period.
6. Water Quality Standards.
  - a. Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
  - b. General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
    - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
    - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
    - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
    - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
    - (5) There shall be no significant human health hazard from incidental contact with the water;
    - (6) There shall be no acute toxicity to livestock or wildlife watering;
    - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
    - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
  - a. Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
  - b. If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

Date of Fact Sheet: January 5, 2006

Date of Public Notice: March 3, 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT  
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0101303

FACILITY NAME: Yacht Club of St. Louis

OWNER NAME: Alexander – Richardson Investments, Inc.

LOCATION: NW¼, NE¼, SW¼, Sec 30, T48N, R5E County: St. Charles

RECEIVING STREAM: Dardenne Slough

FACILITY CONTACT PERSON: David L. Weber                      TELEPHONE: (636) 250-4435

FACILITY DESCRIPTION AND RATIONALE

This facility provides secondary treatment using a septic tank with a sand filter. Sludge disposal is by contract hauler. The discharge design flow is 1,600 gallons per day (<22,500 gallons per day) but is within 2 miles of a WBC classified stream. However, the discharge is so small when compared with the flow of the receiving stream (Mississippi River) that standard technology based limits for BOD<sub>5</sub>, TSS and pH from 10 CSR 20-7.015(4) are assumed to protect the receiving stream. However, other nearby discharges may negate that assumption. Monitoring for temperature and ammonia are included to determine whether “reasonable potential” to exceed state water quality standards exists. The permit should contain a “reopener clause” to address potential water quality issues should this or other monitoring indicate water quality standards are being exceeded due in part to this discharge. While 10 CSR 20-7.031(4) (C) requires the control of fecal coliform this is not believed to be justified due to the small and seasonal discharge.

This permit will be issued for a period of five years.

INSERT MAP ON THIS PAGE

